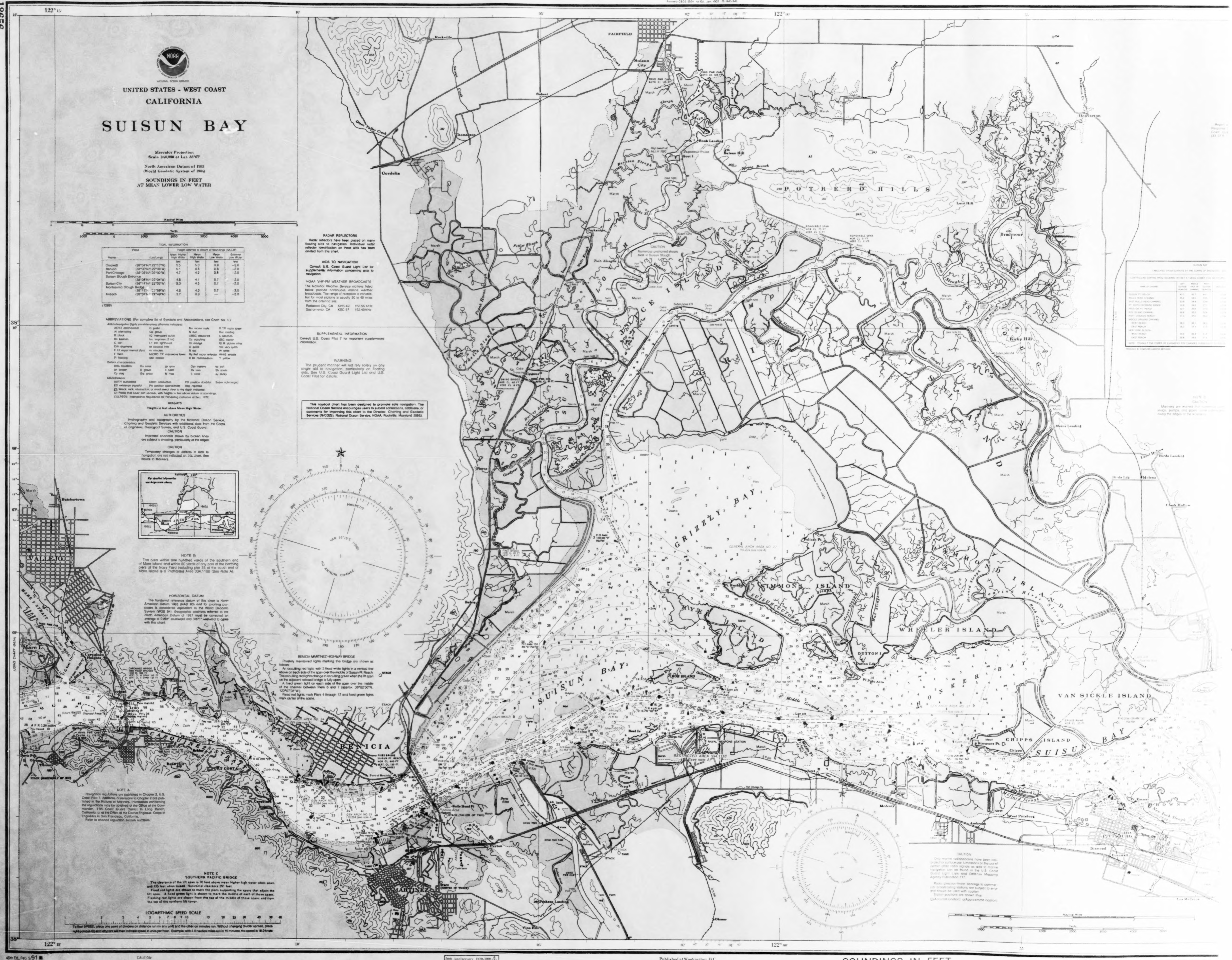
SOUNDINGS IN FEET

18656



UNITED STATES - WEST COAST

CALIFORNIA

SUISUN BAY

Mercator Projection
Scale 1:40,000 at Lat. 38°07'

North American Datum of 1983
(World Geodetic System of 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

Place Name	(Lat/Long)	Height referred to datum of soundings (MLLW) Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Crockett	(38°04'N/122°13'W)	5.5	5.0	0.9	−2.0
Benicia	(38°03'N/122°08'W)	5.1	4.6	0.8	−2.0
Port Chicago	(38°03'N/122°02'W)	4.7	4.2	0.8	−2.0
Suisun Slough Entrance	(38°06'N/122°04'W)	4.6	4.1	0.7	−2.0
Suisun City	(38°14'N/122°02'W)	5.0	4.5	0.7	−2.0
Montezuma Slough Bridge	(38°11'N/121°59'W)	4.6	4.3	0.7	−2.0
Antioch	(38°01'N/121°49'W)	3.7	3.3	—	−2.0

(1288)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
E Int equal interval (Iso)
F fixed
Fl flashing
G green
Gp group
IQ interrupted quick
Iso isophase (E Int)
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics:

Bld boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

21 Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.
COLREGS: International Regulations for Preventing Collisions at Sea, 1972.

HEIGHTS

Heights in feet above Mean High Water

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Redwood City, CA	KHB-49	162.55 MHz
Sacramento, CA	KEC-57	162.40MHz

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

NOTE B

The area within one hundred yards of the southern end of Mare Island and within 50 yards of any part of the berthing piers at the Navy Yard including pier 35 at the south end of Mare Island is a Prohibited Area 334.1100 (See Note A).

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.281" southward and 3.871" westward to agree with this chart.

BENICIA-MARTINEZ HIGHWAY BRIDGE

Privately maintained lights marking this bridge are shown as follows:

An occulting red light, with 3 fixed white lights in a vertical line above on each side of the span over the middle of Suisun Pt. Reach. The occulting red lights change to occulting green when the lift span on the adjacent railroad bridge is fully open.

A fixed green light on each side of the span over the middle of the channel between Piers 6 and 7 (approx. 38°02'38"N, 122°07'31"W.).

Fixed red lights mark Piers 4 through 12 and fixed green lights mark center of the spans.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Long Beach, California, or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.

Refer to charted regulation section numbers.

NOTE C
SOUTHERN PACIFIC BRIDGE

The clearance of the lift span is 70 feet above mean higher high water when down and 135 feet when raised. Horizontal clearance 291 feet.

Fixed red lights are shown to mark the piers supporting the spans that adjoin the lift span. A fixed green light is shown to mark the middle of each of those spans. Flashing red lights are shown from the top of the middle of those spans and from the top of the northern lift tower.

LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	[illegible]
SUISUN PT. REACH	40.1	40.7	44.1	[illegible]
BULLS HEAD CHANNEL	35.2	34.0	33.5	[illegible]
EAST BULLS HEAD CHANNEL	33.8	34.8	33.8	[illegible]
PT. EDITH CROSSING RANGE	34.8	34.6	37.1	[illegible]
PRESTON PT. REACH	32.7	36.8	31.3	[illegible]
ROE ISLAND CHANNEL	28.6	33.2	32.4	[illegible]
PORT CHICAGO REACH	37.2	37.0	35.2	[illegible]
MIDDLE GROUND CHANNEL				
WEST REACH	35.0	36.1	36.3	[illegible]
EAST REACH	35.0	37.1	31.5	[illegible]
NEW YORK SLOUGH				
WEST REACH	30.4	34.4	31.9	[illegible]
EAST REACH	30.8	34.8	31.3	[illegible]

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.

PRODUCED BY COMPUTER ASSISTED METHODS

NOTE D
CAUTION

Mariners are warned that numerous snags, pumps, and pipes, some submerged, along the edges of the waterway.

49th Ed., Feb. 2/91

18656

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

20th Anniversary 1970-1990
National Oceanic and Atmospheric Administration
"Serving The Nation"
John A. Knauss Administrator

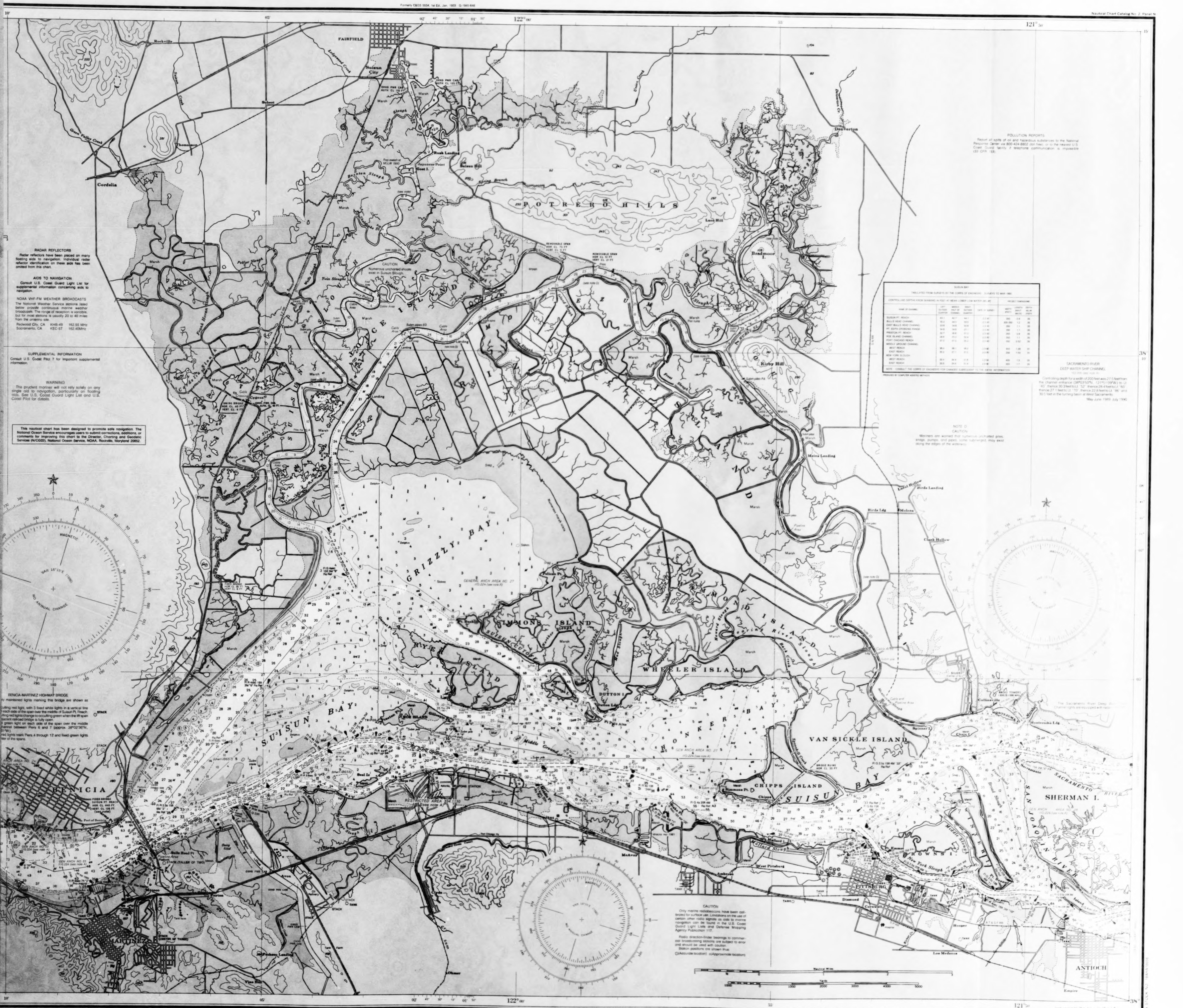
Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

SOUNDINGS IN FEET

C55.418/7: 18656/991

Formerly C&GS 5534, 1st Ed., Jan. 1900   G-1945-648

Nautical Chart Catalog No. 2, Panel N



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POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOTE D
CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, and pipes, some submerged, may exist along the edges of the waterway.

SACRAMENTO RIVER
DEEP WATER SHIP CHANNEL

Controlling depth for a width of 200 feet was 27.5 feet from the channel entrance (38°03'50"N., 121°51'09"W.) to Lt. "40", thence 30.3 feet to Lt. "52", thence 28.4 feet to Lt. "60", thence 27.1 feet to Lt. "70", thence 22.8 feet to Lt. "86", and 30.5 feet in the turning basin at West Sacramento.

May-June 1989, July 1990

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NATIONAL OCEAN SERVICE

SOUNDINGS IN FEET

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102

METERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

(Suisun Bay)

SOUNDINGS IN FEET - SCALE 1:40,000

18656

DMA STOCK NO. 18AHA18656